

Harvey County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Harvey County economy.¹

These 23 sectors have a total direct output of approximately **\$1.17 billion** and support **2,798 jobs** in Harvey County. Running the model for all 23 sectors simultaneously produces the following results:

| Agriculture, Food, and Food Processing Sector Contribution to Overall Harvey County Economy | | | | | | |
|---|---------------|---------------|--------------------------------|--|------------------------|------------------------------------|
| Impact Type ² | Employment | % Employment | Total Value Added ³ | Total Value Added % of Gross Regional Product ⁴ | Output ⁵ | Output % of Gross Regional Product |
| Direct Effect | 2797.9 | 13.56% | \$286,809,378 | 21.26% | \$1,174,893,157 | 87.08% |
| Indirect Effect | 741.4 | 3.59% | \$47,398,978 | 3.51% | \$94,446,204 | 7.00% |
| Induced Effect | 856.4 | 4.15% | \$49,151,368 | 3.64% | \$92,664,118 | 6.87% |
| Total Effect | 4395.6 | 21.31% | \$383,359,725 | 28.41% | \$1,362,003,479 | 100.95% |

As shown in the above table, agriculture, food, and food processing sectors support **4,396 jobs**, or **21.31%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.36 billion**, roughly **100.95% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately **\$383.4 million**, or **28.41% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **28.41% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the farm machinery and equipment manufacturing sector is the top employer with **1,112 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Harvey County.

| Top Ten Agriculture, Food, and Food Processing Sectors by Employment | | |
|--|------------------|---------------|
| Sector | Total Employment | Total Output |
| Farm machinery and equipment manufacturing | 1,111.7 | \$584,029,772 |
| Lawn and garden equipment manufacturing | 579.8 | \$308,254,327 |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 409.0 | \$44,592,417 |
| Grain farming | 195.3 | \$66,638,436 |
| Wholesale trade | 132.7 | \$25,376,267 |
| Landscape and horticultural services | 116.9 | \$4,113,788 |
| Animal, except poultry, slaughtering | 115.7 | \$83,194,574 |
| Real estate | 86.2 | \$9,254,246 |
| Limited-service restaurants | 75.2 | \$5,473,042 |
| Veterinary services | 61.8 | \$5,912,841 |

The farm machinery and equipment manufacturing sector directly contributes approximately **\$584.0 million** to the Harvey County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

| Top Ten Agriculture, Food, and Food Processing Sectors by Output | | |
|--|------------------|---------------|
| Sector | Total Employment | Total Output |
| Farm machinery and equipment manufacturing | 1,111.7 | \$584,029,772 |
| Lawn and garden equipment manufacturing | 579.8 | \$308,254,327 |
| Animal, except poultry, slaughtering | 115.7 | \$83,194,574 |
| Grain farming | 195.3 | \$66,638,436 |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 409.0 | \$44,592,417 |
| Oilseed farming | 42.4 | \$40,715,691 |
| Wholesale trade | 132.7 | \$25,376,267 |
| Owner-occupied dwellings | 0.0 | \$18,933,711 |
| Fertilizer mixing | 26.9 | \$16,906,279 |
| Real estate | 86.2 | \$9,254,246 |

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Harvey County economy.

| All Agriculture, Food, and Food Processing Sectors | | |
|--|-------------------------|---------------------|
| Sector | Total Employment | Total Output |
| Oilseed farming | 42.4 | \$40,715,691.29 |
| Grain farming | 195.3 | \$66,638,436.47 |
| Vegetable and melon farming | 3.9 | \$736,474.88 |
| Fruit farming | 1.9 | \$155,368.85 |
| Tree nut farming | 0.3 | \$47,317.46 |
| Greenhouse, nursery, and floriculture production | 4.7 | \$612,490.60 |
| Cotton farming | 4.7 | \$1,132,594.60 |
| All other crop farming | 21.9 | \$1,544,460.08 |
| Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming | 409.0 | \$44,592,416.92 |
| Dairy cattle and milk production | 9.7 | \$3,734,500.58 |
| Poultry and egg production | 1.6 | \$1,196,709.21 |
| Animal production, except cattle and poultry and eggs | 37.3 | \$4,314,968.31 |
| Commercial logging | 4.7 | \$210,988.26 |
| Commercial hunting and trapping | 9.7 | \$195,627.31 |
| Animal, except poultry, slaughtering | 115.7 | \$83,194,573.93 |
| Bread and bakery product, except frozen, manufacturing | 24.0 | \$2,890,541.05 |
| Frozen cakes and other pastries manufacturing | 1.4 | \$222,204.65 |
| Fertilizer mixing | 26.9 | \$16,906,278.65 |
| Farm machinery and equipment manufacturing | 1111.7 | \$584,029,772.42 |
| Lawn and garden equipment manufacturing | 579.8 | \$308,254,326.77 |
| All other industrial machinery manufacturing | 13.0 | \$3,736,645.01 |
| Veterinary services | 61.8 | \$5,912,841.13 |
| Landscape and horticultural services | 116.9 | \$4,113,788.24 |

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Harvey County, the retail sector was omitted.